	Application No.	Applicant(s)
Notice of Allowability	09/943,968	FORBES, LEONARD
	Examiner	Art Unit
	Dac V. Ha	2634
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is sufficiently.	this application. If not included nication will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed on (</u>	<u>02/28/05</u> .	
2. The allowed claim(s) is/are <u>1-48</u> .	•	
3. \boxtimes The drawings filed on $\underline{02/28/05}$ and $\underline{01/31/02}$ are accepted	by the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority urenable. a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" 	e been received. e been received in Application cuments have been received	No in this national stage application from the
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the Common of the co	on's Patent Drawing Review Amendment / Comment or inches 84(c)) should be written on the header according to 37 CFR	n the Office action of drawings in the front (not the back) of 1.121(d).
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	FOR THE DEPOSIT OF BIOL	CIAL MUST DE SUDMITTED. Note the LOGICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview Sur Paper No./M 8), 7. ☐ Examiner's A	fail Date mendment/Comment tatement of Reasons for Allowance
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Allowable Subject Matter

1. Claims 1-48 are allowed.

2. The following is a statement of reasons for the indication of allowable subject matter:

The present invention relates to simultaneous transmission of digital data and clock signals to eliminate skewing of the data and clock signals with respect to each others. Upon further consideration, prior art of record, taking individually or collectively, fails to fairly teach such method and apparatus including "a phase shift keying circuit for performing phase shift keying of said digital signal onto said clock signal to create a lead output signal and a lag output signal; a digital signal demodulator for demodulating said lead output signal and said lag output signal from said phase shift keying circuit to retrieve said digital signal; and a clock signal demodulator for demodulating said lead output signal and said lag output signal in conjunction with said digital signal to retrieve said clock signal" in independent claim 1; "a lead phase shift network receiving said sinusoidal oscillator signal and said digital signal for producing a positive phase shift in a lead output signal when said digital signal has a logical high value; and a lag phase shift network receiving said sinusoidal oscillator signal and a complementary digital signal for producing a negative phase shift in a lag output signal when said complementary digital signal has a logical high value" in independent claim 24; "a differential amplifier for comparing said lead signal and said lag signal to produce a differential output signal; a transistor amplifier circuit for receiving said differential output signal and producing a transistor signal dependent upon the square of an AC

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component of said differential output signal; an RC low pass filter for receiving said transistor signal and outputting a voltage signal; a voltage comparing circuit for receiving said voltage signal and a voltage reference signal to produce a demodulated digital data signal" in independent claim 32; and "generating a sinusoidal oscillator signal, a digital signal and a complementary digital signal; creating a lead output signal from said sinusoidal oscillator signal and said digital signal; creating a lag output signal from said sinusoidal oscillator signal and said complementary digital signal; transmitting said lead output signal and said lag output signal on matched interconnection lines to a vicinity of a clocked element; demodulating said lead output signal and said lag output signal for retrieving said digital signal; demodulating said lead output signal and said lag output signal using said digital signal for retrieving a clock signal; and inputting said digital signal and said clock signal into said clocked element" in independent claim 38 (claims 2-23, 25-31, 33-37, 39-48 depend therefrom). Thus, claims 1-48 are found to be novel and unobvious over prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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